

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P637209

Luminaire Tested: **IFLD-S-SA3D-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637209
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17038.4 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

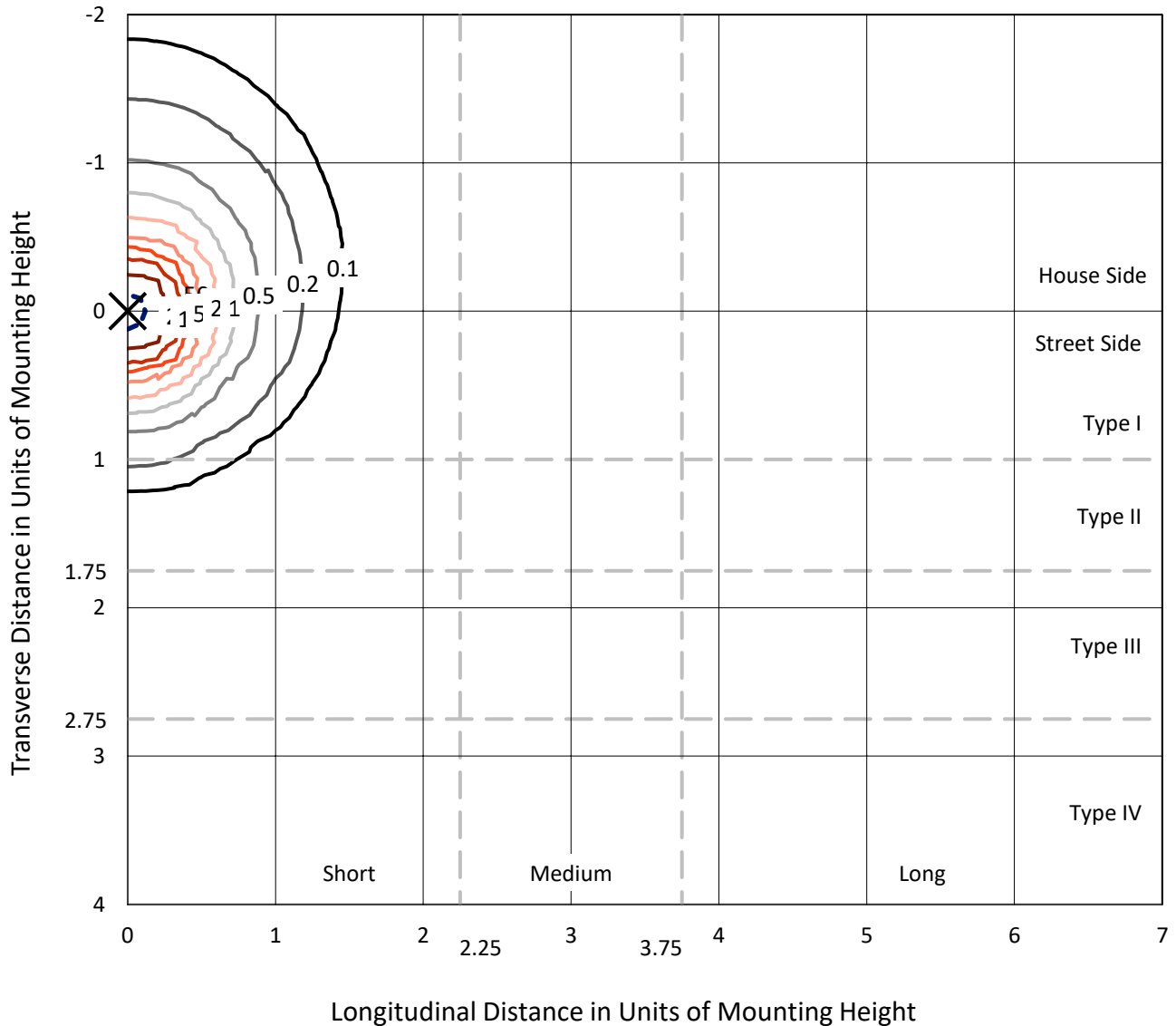
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

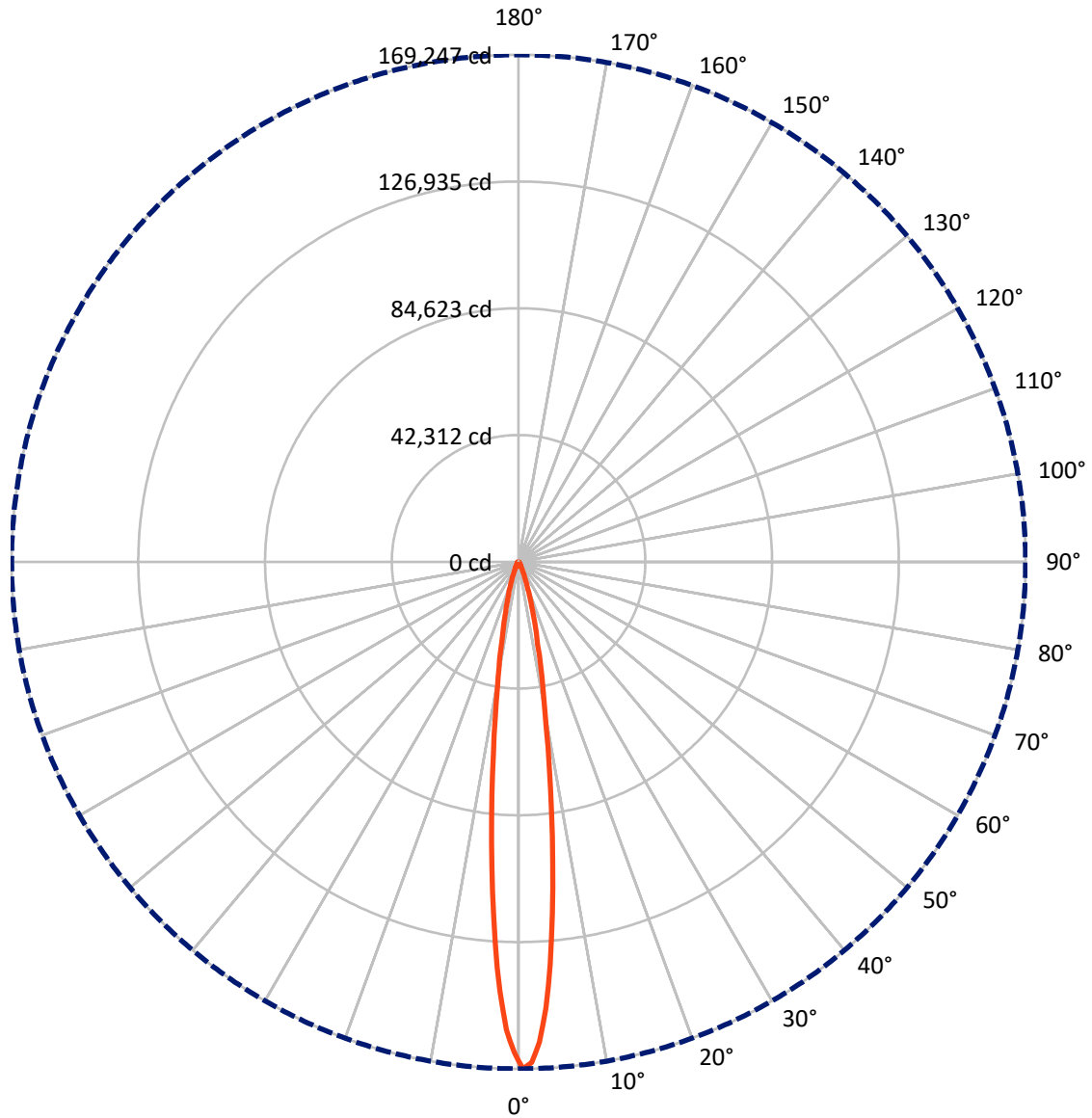
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 423.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8726.8	0.0	8726.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8311.7	0.0	8311.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	17038.4	0.0	17038.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8601.5	50.5
10°-20°	5506.7	32.3
20°-30°	1655.2	9.7
30°-40°	538.9	3.2
40°-50°	313.6	1.8
50°-60°	208.3	1.2
60°-70°	125.4	0.7
70°-80°	64.4	0.4
80°-90°	24.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17038.4	100.0
0°-180°	17038.4	100.0

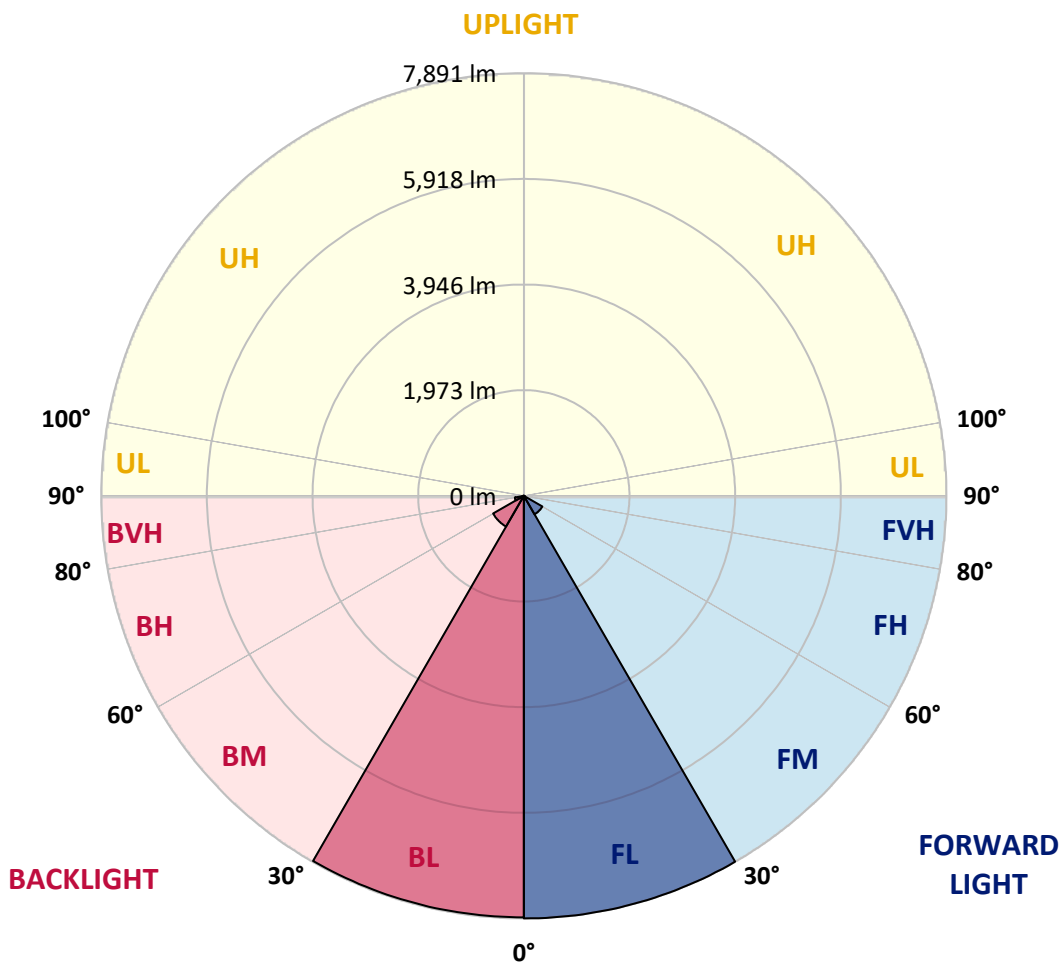


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7891.0	46.3			
FM (30°-60°)	398.2	2.3			
FH (60°-80°)	18.7	0.1			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	7872.3	46.2	B5		
BM (30°-60°)	662.6	3.9	B1/1000		
BH (60°-80°)	171.1	1.0	B1/500		G0/660
BVH (80°-90°)	20.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	169246.9	169246.9	169246.9	169246.9	169246.9	169246.9	169246.9	169246.9	169246.9	169246.9
1°	167220.5	166710.1	165392.5	166329.7	167153.6	166914.3	166897.6	166808.5	166684.1	167660.3
2°	160536.0	160205.7	158257.1	159060.7	160231.7	159378.0	159912.5	159443.0	159452.3	160617.7
3°	149267.9	149447.9	146339.5	147800.0	149427.4	147358.3	148000.4	149206.6	147942.8	147562.4
4°	134622.2	133059.7	131361.7	132846.3	133267.5	132063.1	133247.1	134724.3	132968.7	133046.7
5°	117901.8	116747.6	114737.8	115654.5	114609.7	114990.2	116764.3	117373.0	116148.2	114606.0
6°	100710.1	99889.9	97377.2	98698.5	98327.3	98112.0	100351.9	98496.2	99164.3	98230.8
7°	83770.7	82237.9	81003.8	82269.4	82351.1	81703.4	84611.4	84273.7	83058.1	82776.1
8°	69405.3	67876.2	66831.4	67774.1	68390.2	67373.3	68741.0	69639.2	68689.0	68774.4
9°	55978.9	55709.8	54256.8	55489.0	56158.9	55069.6	56583.9	56908.7	56019.8	56452.1
10°	45963.4	45649.8	44489.9	44989.1	46098.9	44799.8	46252.9	46358.7	45649.8	45852.1
12.5°	28404.2	28278.0	28246.5	28318.9	28304.0	28534.1	28905.3	28482.2	28426.5	27726.9
15°	18359.0	18546.4	18353.4	18724.6	18778.4	18995.5	18769.1	18427.7	17776.3	17453.4
17.5°	11457.4	11696.8	12027.2	12570.9	13114.6	13177.7	12877.1	12476.3	12160.8	11815.6
20°	6591.7	6708.6	6658.5	7309.8	8716.5	9098.8	8710.9	8289.7	7909.2	7560.4
22.5°	4095.7	4053.0	4130.9	4349.9	4808.3	5990.4	5673.1	5251.8	4975.3	4687.6
25°	2510.8	2557.2	2527.5	2648.2	2854.2	3355.2	3427.6	3245.7	3104.7	2956.2
27.5°	1616.4	1616.4	1629.4	1696.2	1837.2	1820.5	2206.5	2065.5	1989.4	1917.0
30°	1122.7	1126.4	1126.4	1165.4	1197.0	1141.3	1241.5	1423.4	1388.1	1332.4
32.5°	833.2	844.4	853.6	874.1	848.1	788.7	812.8	1024.4	1004.0	983.6
35°	634.7	643.9	666.2	677.4	640.2	603.1	580.9	753.4	762.7	757.1
37.5°	462.1	467.7	508.5	551.2	508.5	475.1	462.1	579.0	623.5	618.0
40°	354.4	356.3	363.7	412.0	412.0	386.0	389.7	432.4	510.3	510.3
42.5°	304.3	304.3	311.8	304.3	306.2	334.0	343.3	348.9	432.4	432.4
45°	263.5	263.5	267.2	248.7	230.1	287.6	295.1	296.9	363.7	373.0
47.5°	220.8	220.8	228.3	204.1	194.9	228.3	248.7	254.2	313.6	321.0
50°	163.3	165.2	187.4	167.0	172.6	176.3	215.3	219.0	265.4	282.1
52.5°	109.5	109.5	113.2	129.9	150.3	144.7	174.4	187.4	211.6	233.8
55°	89.1	89.1	87.2	83.5	111.3	120.6	128.0	155.9	172.6	200.4
57.5°	61.2	65.0	59.4	68.7	72.4	90.9	96.5	122.5	131.8	168.9
60°	7.4	9.3	13.0	50.1	48.2	61.2	72.4	96.5	107.6	129.9
62.5°	1.9	1.9	3.7	9.3	33.4	40.8	57.5	66.8	77.9	100.2
65°	0.0	0.0	1.9	3.7	7.4	22.3	29.7	39.0	55.7	70.5
67.5°	0.0	0.0	1.9	3.7	3.7	9.3	14.8	24.1	29.7	52.0
70°	0.0	0.0	1.9	3.7	3.7	7.4	9.3	11.1	20.4	27.8
72.5°	0.0	0.0	1.9	3.7	5.6	7.4	9.3	9.3	9.3	18.6
75°	0.0	0.0	1.9	3.7	5.6	7.4	9.3	9.3	7.4	7.4
77.5°	0.0	0.0	1.9	3.7	7.4	9.3	11.1	9.3	5.6	5.6
80°	0.0	0.0	1.9	5.6	9.3	13.0	14.8	11.1	5.6	3.7
82.5°	0.0	0.0	3.7	7.4	11.1	14.8	20.4	16.7	7.4	3.7
85°	0.0	0.0	1.9	5.6	11.1	14.8	29.7	20.4	9.3	1.9
87.5°	0.0	0.0	0.0	1.9	1.9	3.7	11.1	7.4	3.7	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
169246.9	169246.9	169246.9	169246.9	169246.9	169246.9	169246.9	169246.9	169246.9	169246.9
166533.8	167697.4	167814.3	167432.0	168024.0	167816.2	166598.8	166196.1	165719.1	165032.5
159932.9	159443.0	160038.7	160068.4	160725.3	160716.0	159296.4	158856.6	159667.5	158084.6
148334.4	147885.3	148579.4	147954.0	149121.2	148770.5	147048.4	146601.1	147521.6	146371.0
133662.8	133263.8	133132.0	132916.8	132252.4	133070.8	131896.1	131010.9	132259.8	129799.1
116651.1	116417.2	116124.0	115704.6	115507.9	116116.6	115365.0	113544.5	115368.7	110979.9
99919.6	100042.0	98780.1	98718.9	98609.4	98670.6	96566.2	96692.4	98050.8	94398.7
81805.5	82670.3	82902.3	82429.0	83188.0	82609.0	81183.8	80634.5	82065.3	79483.9
69149.2	68666.7	68373.5	68011.7	69145.5	68141.6	67206.3	66566.0	67696.2	65779.2
56522.7	56416.9	55910.3	55542.8	55485.3	55641.2	53885.6	54241.9	55097.4	53943.2
45963.4	45980.1	45148.7	45351.0	45404.8	45234.1	44083.5	44094.7	44389.7	43001.6
28190.8	28090.6	27682.3	27784.4	27840.1	28187.1	27782.5	27211.0	26799.0	26591.1
17774.4	17655.7	17362.5	17961.9	18364.6	18282.9	17922.9	17653.8	17280.8	16980.2
11815.6	11706.1	12090.3	12092.1	12459.6	12496.7	12136.7	11928.8	11592.9	11607.8
7684.7	7656.9	7816.5	8148.6	8408.4	8558.8	8284.1	8035.4	7805.3	7708.8
4791.6	4791.6	5069.9	5277.8	5615.5	5752.8	5552.4	5376.1	5188.7	5073.6
2991.5	2941.4	3139.9	3312.5	3605.7	3793.2	3696.7	3535.2	3403.5	3342.2
1931.8	1961.5	2045.0	2130.4	2332.7	2527.5	2473.7	2408.8	2329.0	2301.1
1362.1	1382.5	1390.0	1480.9	1594.1	1724.0	1757.4	1727.7	1686.9	1655.3
1000.3	1018.8	1048.5	1091.2	1161.7	1248.9	1328.7	1313.9	1295.3	1280.5
764.6	786.8	831.4	866.6	920.5	966.8	1042.9	1055.9	1050.4	1039.2
629.1	642.1	681.1	716.3	747.9	786.8	838.8	879.6	881.5	870.4
519.6	532.6	567.9	614.3	638.4	666.2	705.2	755.3	759.0	755.3
439.8	449.1	482.5	528.9	558.6	579.0	616.1	666.2	673.6	666.2
376.7	386.0	406.4	454.7	489.9	510.3	534.5	588.3	595.7	593.8
324.8	335.9	356.3	386.0	436.1	454.7	476.9	519.6	532.6	532.6
287.6	295.1	315.5	341.5	386.0	413.8	432.4	467.7	486.2	486.2
250.5	261.7	282.1	309.9	345.2	376.7	393.4	426.8	450.9	450.9
204.1	219.0	254.2	274.7	306.2	348.9	363.7	389.7	421.3	421.3
178.2	191.1	220.8	250.5	276.5	319.2	337.7	363.7	393.4	397.1
141.0	161.5	189.3	224.5	246.8	287.6	311.8	339.6	367.4	374.9
107.6	128.0	165.2	189.3	220.8	259.8	291.4	313.6	341.5	352.6
83.5	94.6	135.5	163.3	196.7	233.8	267.2	285.8	315.5	322.9
59.4	68.7	105.8	139.2	170.7	206.0	239.4	258.0	283.9	289.5
37.1	53.8	77.9	115.1	142.9	180.0	207.8	228.3	245.0	250.5
24.1	31.5	59.4	92.8	124.3	157.7	176.3	191.1	206.0	209.7
11.1	20.4	46.4	76.1	103.9	128.0	144.7	157.7	170.7	172.6
5.6	13.0	33.4	61.2	87.2	98.4	118.8	129.9	137.3	133.6
3.7	7.4	26.0	53.8	70.5	79.8	92.8	103.9	113.2	103.9
3.7	5.6	22.3	44.5	59.4	59.4	74.2	79.8	79.8	76.1
1.9	3.7	18.6	35.3	55.7	44.5	55.7	52.0	52.0	52.0
1.9	3.7	13.0	16.7	24.1	20.4	24.1	24.1	27.8	27.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
169246.9
163830.0
156232.5
143433.4
127739.2
110562.3
94112.9
78173.8
64469.0
52425.1
42381.8
26548.5
17089.7
11509.4
7725.5
5088.5
3327.4
2282.6
1659.0
1280.5
1031.8
868.5
753.4
668.1
593.8
534.5
488.1
450.9
423.1
395.3
374.9
354.4
321.0
285.8
250.5
209.7
170.7
133.6
102.1
74.2
50.1
27.8
0.0

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